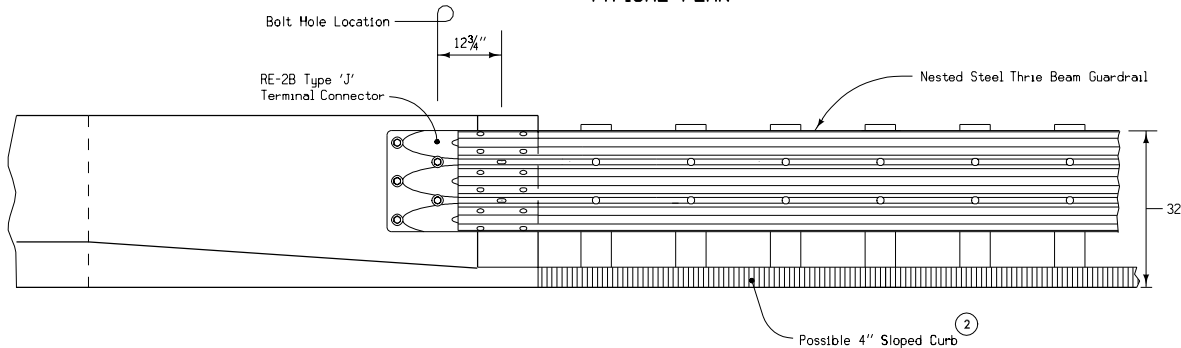
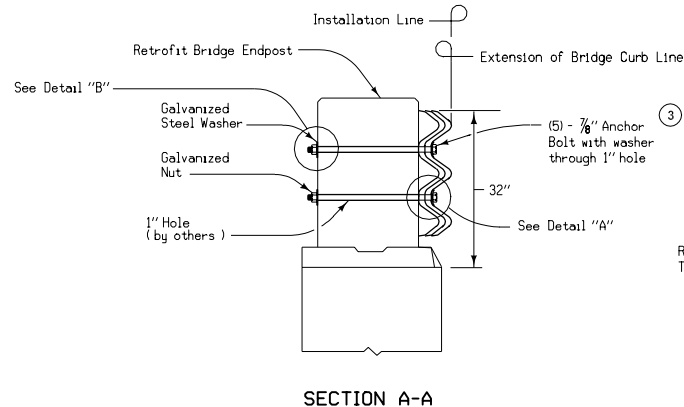
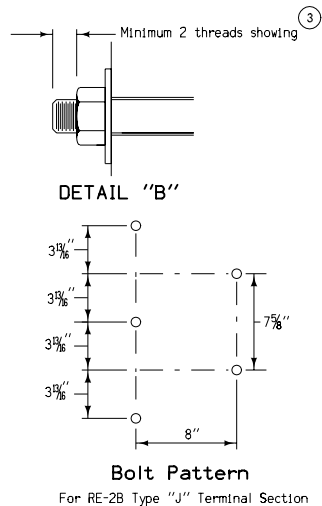


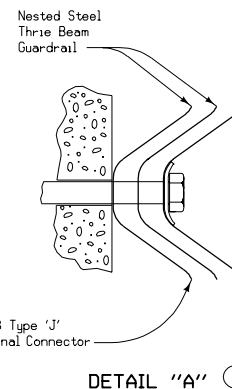
TYPICAL PLAN



TYPICAL ELEVATION



SECTION A-A



DETAIL "A" ①

GENERAL NOTES:

This plan illustrates the method of attaching thrie beam guardrail to a retrofit bridge endpost.

Horizontal and vertical alignment of the guardrail in the area immediately adjacent to the connection shall be adjusted to a smoothly curved line with no abrupt changes.


The anchor bolts shall conform to requirements of ASTM F-1554, Grade 55, threaded full length, and be galvanized. Threads may be chased after galvanizing. Washers shall conform to requirements of ASTM F-436 DH and be galvanized. These materials shall be galvanized in compliance with ASTM A-153, Class C.

The price bid for "Guardrail, End Anchorages, Beam, RE-69", each, shall be considered full compensation for furnishing all materials listed below and the construction of the end anchorage as detailed herein.

LIST OF MATERIALS FOR THE RE-69B END ANCHORAGE:

- 1-RE-2B Type 'J' Terminal Connector
- 5-Approved 7/8" H.S. Hex Bolts
- 5-Approved 7/8" H.S. Hex Nuts
- 10-Approved 15/16" I.D.
- 2-1/4" O.D., 5/32" Thick Washers

- ① For attachments on the trailing end of a one-way bridge, the Type 'J' terminal connector should be lapped on the outside of the nested thrie beam rails.
- ② See applicable Bridge Approach Section standards for specific requirements.
- ③ 7/8" anchor bolts shall be of sufficient length to leave a minimum of 2 thread widths outside of the nut.

 <b>Iowa Department of Transportation</b> Highway Division	
<b>STANDARD ROAD PLAN RE-69B</b>	
REVISION: Changed mounting height to 32".	REVISION NO. 3
APPROVED BY: <i>William J. Allen</i> DESIGN/METHODS ENGINEER	REVISION DATE 10-29-02
<b>GUARDRAIL INSTALLATION CONNECTION TO RETROFIT BRIDGE ENDPOST</b>	

For additional information  
see Standard Road Plan  
RE-2B.